

General Mills
Worldwide Innovation Network

# Connected Innovation: The Power of Many

Lisa Pannell, Ph.D. January 19, 2011



### Why Connected Innovation

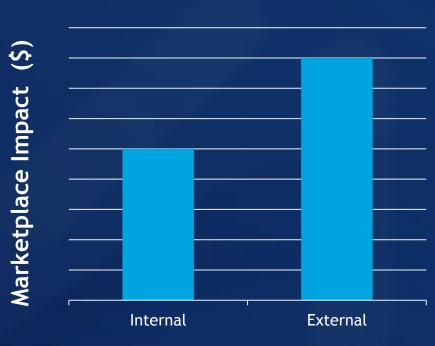
- Current innovation model unsustainable
  - New food channels & competitors
  - Global expansion
  - Many opportunities with limited resources
- Not all the "smart" people work for us
  - GMI holds <1% of US food patents</li>
  - More R&D being done by small companies
- Too many "smart" people work for us
  - GMI has 1200 Scientists and Engineers
  - Impossible to know all of the projects, experts and IP



### **Advantages to Connectedness**

- 1. Speed to market
- Lower risk exploration
- 3. Access to incremental resources
- 4. More impactful product launches

Launches with significant external component had 1.6X in-market impact



Brand Expansion Launches F'07-F'09



#### **Connected Innovation Lessons Learned**

- 1. Know What You Want
- 2. Tell People What You Need (Break Down the Walls)
- 3. Build a Connection Mindset
- 4. Start Small (Think Like a Start-Up)
- 5. Demonstrate Some Quick Wins
- 6. Continue to Think About What's Next

#### Know What You Want

**Consumer Need** 

**Business Need** 

**Technical Need** 

**Problem Statement 1** 

**Problem Statement 2** 

I want less of the "bad" stuff in my food

We want to offer a reduced sodium line of soups

I need to reduce sodium without negatively impacting taste



Seeking natural products that contain, or technologies that produce, high sources of free glutamate compounds

Seeking innovations to block bitter receptors or mask undesirable bitter off-flavors

#### Break Down The Walls

"I never knew other people in the organization were working on something similar"

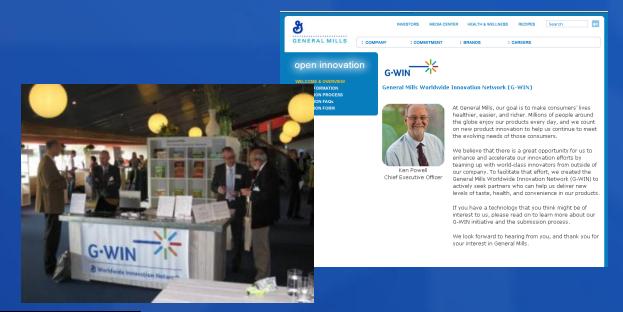
"We usually have to guess what General Mills wants"

"I was in Minneapolis and didn't know who to call at General Mills"



#### We Need...





SEEKING: Innovations to block bitter receptors or mask undesirable bitter off-flavors.

Problem: Within a food system there are important ingredients that act on taste receptors producing desirable and undesirable flavor perceptions

Our Needs: Reduction of bitter flavor perception.

#### Possible Plays:

- Modulation or antagonism of bitter receptors
- Maskers of bitter off-flavors



arrie.Froseth@genmills.com

h our technology submission site at www.generalmills.com/WIN





#### "Connection" vs. "Invention"

## Invention Model

## Connection Model





#### **Internal Collaboration**



#### **Collaboration with Trusted Partners?**

"General Mills is a closed organization to many suppliers...open communication with strategic partners is key in developing a mutually beneficial relationship"

Strategic Supplier Survey, 2005



#### **Collaboration with Trusted Partners!**

40 Supplier 22 Technical (CEO/CTO) **Needs Briefs** 2 Day Conference 200+ Proposals

71 in Further Assessment

**GMI Senior** Leaders



### **Making Progress**

"We have much greater clarity on the General Mills strategies & needs – we no longer have to read the tea leaves."

Strategic Supplier, 2009



### **Uncovered New Opportunities**







**In-Market Success** 

#### **Collaboration with New Partners?**

"...it is General Mills policy not to review, accept, or fund any submitted idea from outside the company"

GMI Response to Technology Broker April 21, 2005



### **Inviting Contact through G-WIN**





#### open innovation

WELCOME & OVERVIEW

VIEW OUR INNOVATION OPPORTUNITIES

SUBMIT YOUR NOVEL IDEA

**G-WIN INFORMATION** 

SUBMISSION FAQs

#### General Mills Worldwide Innovation Network (G-WIN)



At General Mills, our goal is to make consumers' lives healthier, easier, and richer. Millions of people around the globe enjoy our products every day, and we count on new product innovation to help us continue to meet the evolving needs of those consumers.

We believe that there is a great opportunity for us to enhance and accelerate our innovation efforts by

"We believe that there is a great opportunity for us to enhance and accelerate our innovation efforts by teaming up with world-class innovators from outside our company."

## **Sharing Key Needs**



Welcome and Overview

Submission Process

About

Innovation Opportunities

Innovation Opportunities

Register to become a member of the General Mills Worldwide Innovation Network and receive notifications when new needs are posted.

Abstract Version

Summary Version

Innovation Portal

Novel Dairy or Dairy Ingredients for Human Health

Posted:2009-10-01

Milk and cultured dairy products are complex entities containing many components and combinations of components that are potentially positive for human health and nutrition. In particular, milk and cultured dairy components are expected to have positive effects on human bone health, nutritional adequacy, weight management, heart health, digestive health and other emerging health areas. We seek proposals that present approaches or technologies based on milk and cultured dairy that could lead to positive health effects when incorporated into the diet via a food product.

More Details

#### Dairy or Dairy Ingredients for Bone Health

Posted:2009-10-01

Milk and cultured dairy products are complex entities containing many components and combinations of components that are potentially positive for human bone health. Also, milk is naturally associated with certain fortificants, such as vitamin D. Therefore for this brief, vitamin D is considered in scope, as well as components inherent to milk. There could also be processes which increase the bone health benefits related to the milk or cultured dairy product. We seek proposals that present approaches or technologies based on milk and cultured dairy that could lead to positive bone health effects when incorporated into the diet via a food product. More Details

#### Enhanced Sweetness of Simple Carbohydrate Sugars

Posted:2009-10-01

Not all carbohydrate sugars are equally sweet. Sweet taste receptors can be modulated, to increase the perceived sweetness of carbohydrate sugars. We are seeking food grade ingredients that would have this effect. We seek proposals that present approaches or technologies that could lead to enhanced sweetness of carbohydrate sugars such as sucrose, fructose, lactose, and glucose in a food product. More Details



🎎 Share 🔒 Create Proposal

Login Register G•WIN

< 1-5 of 49 | Next Last

Share A Create Proposal

🎎 Share 🐍 Create Proposal





## "Viral" Campaigns



Provide non-confidential response to:

Barrie Froseth

Barrie.Froseth@genmills.com

Or through our technology submission site at <a href="https://www.generalmills.com/WIN">www.generalmills.com/WIN</a>

**SEEKING:** Innovations to block bitter receptors or mask undesirable bitter off-flavors.

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#### **Think Like a Start-Up**

#### **Team Composition**

- Small, nimble teams, "Internal" consultants
- Respected colleagues with strong networks
- People with passion for change and who will make stuff happen
- Lead from behind

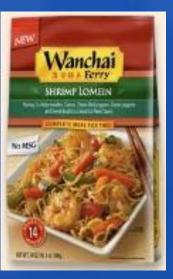
#### **Start-up Strategy**

- Benchmark best in class companies
- Run small-scale pilots to create success stories
- Pair up with a willing partner
- Scale successes and systematize

#### **Demonstrate Quick Wins**







### **Buy your Start-Up Back!**



Judi Morris



Jenny Maack-Mcaab



Lisa Pannell



Beth Melcher



Cathy Stocker



**Alec Hopkins** 



Scott Kirkwood David Nathan



Peeyush Maheshwari

#### **Innovation Entrepreneurs (IE's)**

- Division-based resources
- Articulate needs
- Build connections
- Assess opportunities
- Integrate opportunities into division pipeline



Kim Stern



Xia Liu



**Matt Lorence** 



Lisa Kopas-Lane



Tom Boileau



**Olaf Gruess** 



**Petros Levis** 



**Katie Ohotto** 



## What's Next

Best Practices





#### **Next Practices**

- New Tools for Connecting
  - A developers "workbench" that speeds the connection to innovation partners
- Ways to Play Larger
  - Consortia:
    - Defray research costs and share risks
    - Create scale for implementation
    - Accelerate development of solution
  - Global Scouting Network
    - Identify expertise
    - Build relationships
    - Manage Projects



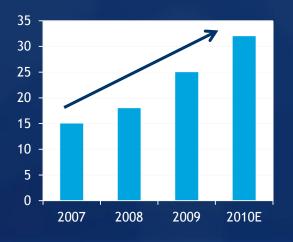
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#### **Portfolio of Connected Innovations**



## % New Product Launches Externally Enabled





General Mills Worldwide Innovation Network

## Thank You

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**GENERAL MILLS**